Muhammad Bilal
Software Engineer

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WORK EXPERIENCE

FIRST HOUSE - Saudi Arabia   **FEB 2025 – Present**
Software Engineer

- Developing and maintaining Smart Home IoT solutions, enabling users to control lighting, appliances, and other devices directly from mobile apps using Flutter and ESP32 micro-controllers.
- Implementing real-time communication between mobile apps and IoT devices via MQTT and Web-socket protocols for seamless device control.
- Designing user-friendly Flutter interfaces for device management, scheduling, and automation of home systems
- Developed company first E-Commerce based website using WordPress WooCommerce now selling 5 thousand products online.
- Technologies: Flutter, ESP32, MQTT, WebSocket, Firebase, REST APIs, TDD, MVVM, E-Commerce-WooCommerce

Sastaticket.pk - Pakistan   **Aug 2023 – Dec 2024**
Software Engineer

- Worked as part of the mobile engineering team on **SastaTicket.pk's Flutter app** (1M+ users).
- Integrated Node.js micro-services with GDS providers (Amadeus), resulting in a 30% improvement in live inventory accuracy and booking reliability Reduced failed API calls from 140k/week to 40k/week.
- Contributed to **payment workflow optimizations**, reducing transaction failures by 25%.
- Reduced regression bugs by 50% by establishing a robust unit and UI testing pipeline, and applying Clean Architecture principles for long-term maintainability.
- **Technologies: Flutter, Nodejs, Amadeus API, CI/CD, Firebase, REST, Unit test, Clean Architecture, MVVM, TDD**

- Link To Project: IOS , Android

Software AG- Pakistan   **May 2022 – Aug 2023**
Mobile Engineer

- Designed, developed, and deployed native iOS apps using Swift, UIKit, and SwiftUi, applying clean architectures (MVC/MVVM) for scalability and maintainability.
- Integrated RESTful APIs, payment gateways (Credit/Debit, Apple Pay, Stripe), and push notifications, enabling secure fintech and e-commerce solutions.
- Implemented offline data storage (Core Data, User Defaults) and improved app performance by 30% through memory optimization and efficient API handling.
- Performed code reviews, unit testing (XCTest), and debugging to ensure high-quality, crash-free releases.
- **Technologies:** Swift, Kotlin, Flutter, REST APIs, Combine, Coroutines, Clean Architecture, MVC/MVVM

MoboLogic -Pakistan   **Jan 2022 – May 2022**
Internship

- Assisted in developing Mobile Feature.
- Supported the Rest Api integration.
- Participated in code reviews, debugging session.

__PROJECTS

Location Based Task Reminder

- Location Based Task Reminder App build on Flutter,Firebase,GoogleMap,Local notification, targeting Android, iOS,
    - Trended on GitHub
- Link: [Location based Task Reminder App](#)

Fantasy-Fitness IOS

- Turn real-world activity into fantasy-style stats. Track running, walking, and jogging to earn points, level up, and compete with friends.
- Integrated HealthKit
- Integrated One Signal Notifications
- Built with SwiftUi, Swift Concurrency (async/await), Supabase backend, and Widget Kit
- Link: [Fantasy-Fitness](#)

E-Speech

- Cross-platform AI-based **real-time voice translator** (30+ languages),
- Designed for live conferences & meetings with instant translation

- Link: [E-Speech](#)

__Skills

Mobile	Flutter/Dart	Kotlin / Swift	UIKit/SwiftUi	Jetpack Compose
Back-end	Node.js	Firebase/ Supabase	Sql/NoSql	Api, Payment, WebSocket
Archi/DB/Testing	Getx, Bloc, River pod	MVVM/MVC	TDD	Unit/widget Testing
CI/CD	GitHub	GitLab	Bitbucket	

EDUCATION

Awkum, Pakistan   **Graduated July 2022**
Bachelor of Software Engineering, Computer Science

- Google Professional UX Certificate   (Coursera)
- Advance Programming in Kotlin   (Meta)
- IOS Development Bootcamp   (Udemy)
- Agentic Ai for Developers   (LinkedIn)
- Flutter Zero to Hero Mystery Course   (Udemy)
- Flutter Complete Bootcamp 2022   (Udemy)
- UI / UX Design Specialization   (California University of Arts-Coursera)